CLAIMS

- An antibody recognizing both an enzyme and a substrate thereof, wherein said antibody is a
 bispecific antibody which functionally substitutes for a cofactor that enhances the enzymatic reaction.
 - 2. The antibody according to claim 1, wherein said enzyme is a proteolytic enzyme.
 - 3. The antibody according to claim 2, wherein said proteolytic enzyme, substrate, and cofactor are blood coagulation/fibrinolysis-associated factors.
- 4. The antibody according to claim 3, wherein the enzyme of a blood coagulation/fibrinolysis-associated factor is blood coagulation factor IX and/or activated blood coagulation factor IX; the substrate is blood coagulation factor X; and the cofactor is blood coagulation factor VIII and/or activated blood coagulation factor VIII.
- 5. The antibody according to any one of claims 1 to 4, wherein said antibody comprises a complementarity determining region comprising the amino acid sequence of anti-blood coagulation factor IX/IXa antibody CDR3 of the following (a1) or (a2) or a complementarity determining region functionally equivalent thereto, and a complementarity determining region comprising the amino acid sequence of anti-blood coagulation factor X antibody CDR3 described in any one of the following (b1) to (b9) or a complementarity determining region functionally equivalent thereto:
 - (a1) H chain CDR 3 amino acid sequence described in SEQ ID NO: 16;
 - (a2) H chain CDR 3 amino acid sequence described in SEQ ID NO: 20;
 - (b1) H chain CDR 3 amino acid sequence described in SEQ ID NO: 24;
 - (b2) H chain CDR 3 amino acid sequence described in SEQ ID NO: 28;
 - (b3) H chain CDR 3 amino acid sequence described in SEQ ID NO: 32;

25

35

- (b4) H chain CDR 3 amino acid sequence described in SEQ ID NO: 36;
- (b5) H chain CDR 3 amino acid sequence described in SEQ ID NO: 40;
- (b6) H chain CDR 3 amino acid sequence described in SEQ ID NO: 44;
- (b7) H chain CDR 3 amino acid sequence described in SEQ ID NO: 48;
- 30 (b8) H chain CDR 3 amino acid sequence described in SEQ ID NO: 52;
 - (b9) H chain CDR 3 amino acid sequence described in SEQ ID NO: 56.
 - 6. The antibody according to any one of claims 1 to 4, wherein said antibody comprises a complementarity determining region comprising the amino acid sequence of anti-blood coagulation factor IX/IXa antibody CDR of the following (a1) or (a2) or a complementarity determining region functionally equivalent thereto, and a complementarity determining region comprising the amino acid sequence of anti-blood coagulation factor X antibody CDR described

- in any one of the following (b1) to (b9) or a complementarity determining region functionally equivalent thereto:
- (a1) H chain CDR 1, 2, and 3 amino acid sequences described in SEQ ID NOs: 14, 15, and 16, respectively;
- 5 (a2) H chain CDR 1, 2, and 3 amino acid sequences described in SEQ ID NOs: 18, 19, and 20, respectively;
 - (b1) H chain CDR 1, 2, and 3 amino acid sequences described in SEQ ID NOs: 22, 23, and 24, respectively;
 - (b2) H chain CDR 1, 2, and 3 amino acid sequences described in SEQ ID NOs: 26, 27, and 28,
- 10 respectively;

20

- (b3) H chain CDR 1, 2, and 3 amino acid sequences described in SEQ ID NOs: 30, 31, and 32, respectively;
- (b4) H chain CDR 1, 2, and 3 amino acid sequences described in SEQ ID NOs: 34, 35, and 36, respectively;
- 15 (b5) H chain CDR 1, 2, and 3 amino acid sequences described in SEQ ID NOs: 38, 39, and 40, respectively;
 - (b6) H chain CDR 1, 2, and 3 amino acid sequences described in SEQ ID NOs: 42, 43, and 44, respectively;
 - (b7) H chain CDR 1, 2, and 3 amino acid sequences described in SEQ ID NOs: 46, 47, and 48,
 - respectively; (b8) H chain CDR 1, 2, and 3 amino acid sequences described in SEQ ID NOs: 50, 51, and 52, respectively;
 - (b9) H chain CDR 1, 2, and 3 amino acid sequences described in SEQ ID NOs: 54, 55, and 56, respectively.
- 7. A composition comprising the antibody according to any one of claims 1 to 6 and a pharmaceutically acceptable carrier.
 - 8. The composition according to claim 7, wherein said composition is a pharmaceutical composition used for preventing and/or treating bleeding, disorder accompanied by bleeding, or disorder caused by bleeding.
- 9. The composition according to claim 8, wherein the bleeding, disorder accompanied by bleeding, or disorder caused by bleeding is a disorder that arises and/or progresses as a result of an activity decrease or deficiency of blood coagulation factor VIII and/or activated blood coagulation factor VIII.
- 10. The composition according to claim 9, wherein the disorder that arises and/or progresses as a result of an activity decrease or deficiency of blood coagulation factor VIII and/or activated blood coagulation factor VIII is hemophilia A.

- 11. The composition according to claim 9, wherein the disorder that arises and/or progresses as a result of an activity decrease or deficiency of blood coagulation factor VIII and/or activated blood coagulation factor VIII is a disorder in which an inhibitor against blood coagulation factor VIII and/or activated blood coagulation factor VIII is generated.
- 12. The composition according to claim 9, wherein the disorder that arises and/or progresses as a result of an activity decrease or deficiency of blood coagulation factor VIII and/or activated blood coagulation factor VIII is acquired hemophilia.
 - 13. The composition according to claim 9, wherein the disorder that arises and/or progresses as a result of an activity decrease of blood coagulation factor VIII and/or activated blood coagulation factor VIII is you Willebrand's disease.
 - 14. A method for preventing and/or treating bleeding, disorder accompanied by bleeding, or disorder caused by bleeding, wherein said method comprises the step of administering the antibody according to any one of claims 1 to 6, or the composition according to any one of claims 7 to 13.
- 15. Use of the antibody according to any one of claims 1 to 6 for preparing the composition according to any one of claims 7 to 13.

10

- 16. A kit used in the method of preventing and/or treating disorders according to claim 14, wherein said kit comprises at least the antibody according to any one of claims 1 to 6 or the composition according to claim 7.
- 17. A method of preventing and/or treating bleeding, disorder accompanied by bleeding, or disorder caused by bleeding, wherein said method comprises the step of administering the antibody according to any one of claims 4 to 6 or the composition according to any one of claims 7 to 13 in combination with blood coagulation factor VIII.
- 18. A kit used in the method of preventing and/or treating bleeding, disorder accompanied by bleeding, or disorder caused by bleeding according to claim 17, wherein said kit comprises at least the antibody according to any one of claims 4 to 6, or the composition according to claim 7, and blood coagulation factor VIII.